

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sodium carboxymethyl cellulose near thicken\$ [ti]	2	<u>L11</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sodium carboxymethyl cellulose near thicken\$	110	<u>L10</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	acoustic\$ tile and polyacrylic\$	9	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	acoustic\$ tile and polyacrylic resin	0	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	acoustic\$ tile and anionic polyacrylic resin	0	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	acoustic\$ tile and sodium carboxymethyl cellulose	1	<u>L6</u>
USPT,PGPB	acoustic\$ tile and sodium carboxymethyl cellulose	1	<u>L5</u>
USPT,PGPB	4549931 [pn] and sodium carboxymethyl cellulose	0	<u>L4</u>
USPT,PGPB	4549931 [pn] and carboxymethyl cellulose	0	<u>L3</u>
USPT,PGPB	4549931 [pn] and retention aid	0	<u>L2</u>
USPT,PGPB	4549931 [pn] and starch	0	<u>L1</u>

09/718755

Art Unit: 1711

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnan et al

(WO 95/24447).

Krishnan discloses compatibilized blends of a biodegradable hydrophobic polyester,

unmodified starch or other similar polysaccharide, other biodegradable polymers, plasticizer and

additives. The polymer forms a continuous phase while starch forms a discontinuous one.

Claim 2 is indefinite in reciting "3 or more carbon atoms" and "2 or more alcohol group"

because one cannot know precisely how many carbon atoms or how many alcohol groups are

envisioned.

This application does not contain an abstract of the disclosure as required by 37

CFR 1.72(b). An abstract on a separate sheet is required.

The disclosure is objected to because of the following informalities: Words "selected

form compounds" in claim 1, lines 8-9, should be replaced with -- which is one of the --.

Hyphen in claim 1 line 9 and dash in line 10 should be deleted.

Appropriate correction is required.

U.K. Rajguru/om
July 8, 2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB	polyamine epichlorohydrin and l2 [clm]	0	<u>L14</u>
USPT,PGPB	polyamine epichlorohydrin and l2 [ab]	0	<u>L13</u>
USPT,PGPB	polyamine epichlorohydrin and l2 [ti]	0	<u>L12</u>
USPT,PGPB	polyamine epichlorohydrin and l2	7	<u>L11</u>
USPT,PGPB	polyamine epichlorohydrin	493	<u>L10</u>
USPT,PGPB	l1 and l2 [clm]	0	<u>L9</u>
USPT,PGPB	l1 and l2 [ab]	1	<u>L8</u>
USPT,PGPB	l1 and l2 [ti]	0	<u>L7</u>
USPT,PGPB	l1 and l2	6	<u>L6</u>
USPT,PGPB	Cal\$3Zet 40	0	<u>L5</u>
USPT,PGPB	Cal\$1Zet 40	0	<u>L4</u>
USPT,PGPB	Cal Zet 40	0	<u>L3</u>
USPT,PGPB	tile	25901	<u>L2</u>
USPT,PGPB	Kymene 557H	166	<u>L1</u>

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Printer: cp3_4c07_gbgndtr

Summary

Document	Pages	Printed	Missed
US005300562	6	6	0
Total (1)	6	6	0

WEST**Generate Collection****Search Results - Record(s) 1 through 7 of 7 returned.**☐ 1. Document ID: US 20010020077 A1

L11: Entry 1 of 7

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010020077

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010020077 A1

TITLE: Novel fluorocopolymers for the hydrophobic and oleophobic treatment of various substrates

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Juhue, Didier	Vernon		FR	
Pabon, Martial	Courbevoie		FR	
Tembou N'Zudie, Denis	Serquigny		FR	
Corpart, Jean-Marc	Sannois		FR	
Lina, Marie-Jose	Lyon		FR	

US-CL-CURRENT: 526/243; 526/242, 526/245, 526/317.1, 526/319, 526/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Deso	Image
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☐ 2. Document ID: US 6111043 A

L11: Entry 2 of 7

File: USPT

Aug 29, 2000

US-PAT-NO: 6111043

DOCUMENT-IDENTIFIER: US 6111043 A

TITLE: Fluorocopolymers for oil repelling and waterproofing treatment of various substrates

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Corpart, Jean-Marc	Sannois			FRX
Dessaint, Andre	Clermont			FRX
Lina, Marie-Jose	Lyons			FRX

US-CL-CURRENT: 526/243; 428/422, 428/532, 525/326.2, 526/245, 526/246, 526/248

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Deso	Image
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Art Unit: 1711

Like Cole, EP '755 does not explicitly mentioned all the (claimed) limitations. Even then teachings of EP '755 would obviously lead one of ordinary skill in the art to the instant invention.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to U.K. Rajguru whose telephone number is (703) 308-3224. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jim Seidleck, can be reached on (703) 308-2462. The fax phone number for the

organization where this application or proceeding is assigned is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

U.K. Rajguru/om
June 20, 2000

☐ 3. Document ID: US 6096412 A

L11: Entry 3 of 7

File: USPT

Aug 1, 2000

US-PAT-NO: 6096412

DOCUMENT-IDENTIFIER: US 6096412 A

TITLE: High color density printing on sanitary disposable paper products
exhibiting resistance to ink rub-off

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McFarland; James Robert	Cincinnati	OH		
Ebrahimpour; Arman	Cincinnati	OH		
Nissing; Nicholas James	Cincinnati	OH		

US-CL-CURRENT: 428/211; 428/500, 428/507, 428/511, 428/514

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5990377 A

L11: Entry 4 of 7

File: USPT

Nov 23, 1999

US-PAT-NO: 5990377

DOCUMENT-IDENTIFIER: US 5990377 A

TITLE: Dual-zoned absorbent webs

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Fung-jou	Appleton	WI		
Lindsay; Jeffrey Dean	Appleton	WI		
Kamps; Richard Joseph	Wrightstown	WI		
Lake; Andrew Michael	Combined Locks	WI		
Robinson; Mark Louis	Appleton	WI		

US-CL-CURRENT: 604/381; 442/79, 442/86, 604/385.101

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5213588 A

L11: Entry 5 of 7

File: USPT

May 25, 1993

X0000001
July 31, 1790



The United States.

To all to whom these Quents shall come. Greeting.

Whereas Samuel Hopkins of the City of Philadelphia and State of Pennsylvania hath discovered an Improvement, not known or used before such Discovery, in the making of Oak ash and Oak bark, by a new Apparatus and Process, that is to say, in the making of Oak bark 1st by burning the raw Oak in a Furnace, 2^d by digesting and boiling them when so burnt in Water, 3^d by drawing off and settling the渣, and 4th by boiling the渣 into balls which become the true Oak bark, and also in the making of Oak ash by passing the Oak bark so made as aforesaid, which Quantity of burning the raw Oak in a Furnace, separating it from the渣 and boiling in Water, is new, leaves little Residuum, and produces a much greater Quantity of ball: These are therefore in pursuance of the Act, entitled "An Act to promote the Progress of useful Arts," to grant to the said Samuel Hopkins, his heirs, Administrators and Assigns, for the Term of fourteen Years, the sole and exclusive Right and Privilege of using and vending to others the said Discovery, of burning the raw Oak pursuant to this being digested and boiled in Water, according to the true Intent and Meaning of the Act aforesaid. In Testimony whereof I have caused these Letters to be made Patent, and the Seal of the United States to be hereunto affixed Given under my Hand at the City of New York this thirty first Day of July in the third Year of our said one thousand seven hundred and ninety.

Washington

City of New York. July 31st 1790.

Do hereby certify that the foregoing Letters Patent were delivered to me in pursuance of the Act, entitled "An Act to promote the Progress of useful Arts," that they have remained the same, and find them conformable to the said Act.

Sam: Randolp^h Attorney General for the United States.

US-PAT-NO: 5213588
DOCUMENT-IDENTIFIER: US 5213588 A

TITLE: Abrasive wiping articles and a process for preparing such articles

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Arthur	West Chester	OH		
Mackey; Larry N.	Fairfield	OH		
Franxman; James J.	Cincinnati	OH		
Burchnall; John B.	West Chester	OH		

US-CL-CURRENT: 51/293; 51/295, 51/298, 525/221

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIGS	Draw Desc	Image
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☐ 6. Document ID: US 4571412 A

L11: Entry 6 of 7

File: USPT

Feb 18, 1986

US-PAT-NO: 4571412

DOCUMENT-IDENTIFIER: US 4571412 A

TITLE: Aqueous adhesive compositions

DATE-ISSUED: February 18, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Minamida; Hisatsugu	Yamatokoriyama			JPX
Kato; Akira	Nara			JPX
Sawayama; Isamu	Hikami			JPX
Tanaka; Ken-ichi	Hikami			JPX

US-CL-CURRENT: 524/64; 524/514, 524/802

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FIGS	Draw Desc	Image
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☐ 7. Document ID: US 4549931 A

L11: Entry 7 of 7

File: USPT

Oct 29, 1985

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Printer: cp3_4c07_gbloptr

Summary

Document	Pages	Printed	Missed
US0X0000001	1	1	0
Total (1)	1	1	0

US-PAT-NO: 4549931

DOCUMENT-IDENTIFIER: US 4549931 A

TITLE: Inorganic binders for articles formed from fibers

DATE-ISSUED: October 29, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adamowicz; John A.	Corning	NY		
Schlup; John R.	Horseheads	NY		
Spotz; Mark S.	Corning	NY		

US-CL-CURRENT: 162/145; 162/146, 162/152, 162/158, 162/179, 162/181.1, 162/181.4,
162/181.5

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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Term	Documents
POLYAMINE.USPT,PGPB.	19184
POLYAMINES.USPT,PGPB.	20317
EPICHLOROHYDRIN.USPT,PGPB.	21968
EPICHLOROHYDRINS.USPT,PGPB.	220
((POLYAMINE ADJ EPICHLOROHYDRIN) AND 2).USPT,PGPB.	7

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US004019995	15	1 - 15
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Search Results - Record(s) 1 through 10 of 14 returned.

☐ 1. Document ID: US 5964934 A

L1: Entry 1 of 14

File: USPT

Oct 12, 1999

US-PAT-NO: 5964934

DOCUMENT-IDENTIFIER: US 5964934 A

TITLE: Acoustical tile containing treated perlite

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Englert; Mark H.	Libertyville	IL		

US-CL-CURRENT: 106/287.1; 106/287.11, 106/287.15, 106/287.16, 106/DIG.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5817262 A

L1: Entry 2 of 14

File: USPT

Oct 6, 1998

US-PAT-NO: 5817262

DOCUMENT-IDENTIFIER: US 5817262 A

TITLE: Process of producing gypsum wood fiber product having improved water resistance

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Englert; Mark H.	Libertyville	IL		

US-CL-CURRENT: 264/86; 162/164.4, 162/187, 264/236, 264/347, 264/87

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5395438 A

L1: Entry 3 of 14

File: USPT

Mar 7, 1995

TABLE 4

Ex. No.	Blend	Hs	Mo 100	T _g	R _g	Hs change (%)	T _g change (%)	R _g change (%)
30	A	50	1.4	6.3	330	+6	-14	-27
31	B	51	1.9	8.1	190	+6	+20	-40
32	C	50	1.6	6.4	340	+8	+20	-26
33	C	50	1.8	7.1	260	+4	+12	-20
34	D	40	0.7	3.2	540	+15	-29	-40
35	E	59	0.9	4.8	300	+6	+8	-20
36	F	52	1.6	6.3	280	+6	0	-29
37	G	50	0.9	5.5	350	+4	+9	-25
38	H	50	1.4	5.9	300	+8	+10	-40
39	I	50	1.8	6.9	270	+5	+2	-18
40	J	48	1.4	5.5	350	+9	-20	-29
41	K	51	2.1	5.3	300	+4	-25	+27
42	L	50	1.9	6.4	320	+4	+2	-6
43	M	48	1.3	6.0	420	+7	+12	-29
44	N	52	2.1	6.1	290	+4	+2	-10
45	O	49	1.6	6.2	350	+5	-3	-20
46	P	49	1.7	4.8	430	+7	+5	-19
47	Q	50	1.8	5.9	320	+4	+1	-8
48	R	50	1.8	6.1	300	+3	0	-15
49	R	53	2.2	6.5	260	+2	+5	-15

EXAMPLE 50

The following components were kneaded by open roll, and the resulting kneaded mixture was subjected to press vulcanization at 180° C. for 15 minutes and then to gear oven vulcanization at 190° C. for 24 hours. The vulcanization product was determined for physical properties and also subjected to heat aging test and deterioration test with engine oil in the same manner as in Example 30:

Blend rubber R	100 parts by weight
Stearic acid	1 parts by weight
Antioxidant (Nocack CD)	2 parts by weight
HF carbon black	25 parts by weight
Calcium hydroxide	4 parts by weight
Benzoic acid	0.5 parts by weight
Triphenylphosphonium chloride	1 parts by weight
(product made by Pulka Co.)	

EXAMPLES 51 TO 59

The following components were kneaded and the resulting kneaded mixtures were subjected to vulcanization, and of physical properties and tests in the same manner as in Example 50:

Blend rubber R	100 parts by weight
Stearic acid	1 parts by weight
Antioxidant (Nocack CD)	2 parts by weight
HF carbon black	25 parts by weight
Calcium hydroxide	4 parts by weight
Triphenylphosphine	4 parts by weight
(product of Wako Jinyaku K.K., Japan)	
Triphenylphosphine	2 parts by weight
(product of Wako Jinyaku K.K., Japan)	
K.K., Japan)	
Kory compound	(as given below)
(Kory compound: Gly = glycidyl group)	
Example 51: Styrene oxide	2 parts by weight
(product of Wako Jinyaku K.K., Japan)	
Example 52: C ₆ H ₅ O(CH ₂ CH ₂ O) ₃ Gly	2 parts by weight
(Denacol EX-145; trademark of a	

Results of determination of physical properties and tests in Examples 50 to 59 are shown in the following Table 5, where no crack occurrence was observed at all in the deterioration test with engine oil throughout the Examples.

TABLE 5

Ex. No.	Hs	Mo 100	T _g	R _g	Hs change (%)	T _g change (%)	R _g change (%)
50	63	3.2	7.9	340	+6	+3	-41
51	70	5.1	9.7	210	+2	+3	-23
52	65	3.3	7.5	270	+8	+24	-29
53	67	3.5	8.4	270	+4	+17	-26
54	63	2.7	6.2	250	+8	+36	-37
55	78	7.8	9.5	170	+4	+13	-38
56	72	5.5	9.1	220	+5	+5	-30
57	79	8.4	9.8	170	+3	+17	-32

-continued-

product made by Nagase Sangyo K.K., Japan)	
Example 53: Dibromophenyl glycidyl ether	2 parts by weight
(Denacol EX-147; trademark of a	
product made by Nagase Sangyo K.K., Japan)	
Example 54: CH ₃ (CH ₂) ₁₁ O(CH ₂ CH ₂ O) ₁ Gly	2 parts by weight
(Denacol EX-171; trademark of a	
product made by Nagase Sangyo K.K., Japan)	
Example 55: Bisphenol A diglycidyl ether	4 parts by weight
(Epilene 828; trademark of product made by Yuka-Shell epoxy K.K., Japan)	
Example 56: Epikote 828	2 parts by weight
Example 57: GlyO[C ₆ H ₄ COOCH ₂ CH(OH)CH ₂ O] _n C ₆ H ₄ COOGly	4 parts by weight
(U-Quick 103; trademark of a product made by Ueno Seiyaku K.K., Japan)	
Example 58: Tri(2,3-epoxypropyl)isocyanurate	4 parts by weight
(TRPIC; trademark of a product made by Nissan Kagaku Kogyo K.K., Japan)	
Example 59: N,N,N',N'-tetraglycidyl-bis(aminophenyl)-methane	2 parts by weight
(Bpocro YH-434; trademark of a product made by Taro Kasei Kagaku Kogyo K.K., Japan)	

US-PAT-NO: 5395438

DOCUMENT-IDENTIFIER: US 5395438 A

TITLE: Mineral wool-free acoustical tile composition

DATE-ISSUED: March 7, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baig; Mirza A.	Des Plaines	IL		
Englert; Mark H.	Buffalo Grove	IL		
Gaynor; John C.	Antioch	IL		
Kacner; Michael A.	Lindenhurst	IL		
Singh; Rajinder	Mundelein	IL		

US-CL-CURRENT: 106/164.51; 106/122, 106/162.51

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FORM	Draw Desc	Image
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☐ 4. Document ID: US 5250153 A

L1: Entry 4 of 14

File: USPT

Oct 5, 1993

US-PAT-NO: 5250153

DOCUMENT-IDENTIFIER: US 5250153 A

TITLE: Method for manufacturing a mineral wool panel

DATE-ISSUED: October 5, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Izard; David G.	Wauconda	IL		
Englert; Mark H.	Buffalo Grove	IL		

US-CL-CURRENT: 162/152; 162/168.3, 162/169, 162/175, 162/178, 162/181.1,
162/181.3, 162/181.6, 162/181.8, 162/183, 162/208, 162/212, 162/217

Full	Title	Citation	Front	Review	Classification	Date	Reference
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FORM	Draw Desc	Image
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☐ 5. Document ID: US 5047120 A

L1: Entry 5 of 14

File: USPT

Sep 10, 1991

TABLE 5-continued

Ex.	No.	Hs	Mo 100	T _g	E _g	Hs	T _g	E _g
		(ps)	(MPa)	(MPa)	(%)	(ps)	(%)	(%)
58	73	6.7	9.6	130	+3	+5	-23	
59	77	6.6	9.7	190	+2	-3	-17	

COMPARATIVE EXAMPLE 7

The following components were kneaded and vulcanized in the same manner as in Example 30:

Acrylic copolymer elastomer L	100 parts by weight
Stearic acid	1 parts by weight
Antioxidant (Nocack CD)	2 parts by weight
NAF carbon black	2 parts by weight
Calcium hydroxide	5 parts by weight
Magnesium oxide	2 parts by weight
Bisphenol AF	1 parts by weight
Benzyltriphenylphosphonium chloride	4 parts by weight

COMPARATIVE EXAMPLE 8

The following components were kneaded and vulcanized in the same manner as in Example 30:

Acrylic copolymer elastomer L	100 parts by weight
Stearic acid	1 parts by weight
Antioxidant (Nocack CD)	2 parts by weight
NAF carbon black	60 parts by weight
2,4,6-trimercaptotriazine	0.5 parts by weight
Sodium stearate	2 parts by weight

COMPARATIVE EXAMPLE 9

Fluorine-containing elastomer A	100 parts by weight
MT carbon black	25 parts by weight
Calcium hydroxide	5 parts by weight
Magnesium oxide	2 parts by weight
Bisphenol AF	2 parts by weight
Benzyltriphenylphosphonium chloride	0.4 parts by weight

The following components were kneaded and vulcanized in the same manner as in Example 30:

COMPARATIVE EXAMPLES 10 TO 13

The above components were kneaded and vulcanized in the same manner as in Example 30, except that the second-ary vulcanization was carried out at 230° C. for 24 hours. Results of determination of physical properties and tests in Comparative Examples 7 to 9 are shown in the following Table 6, where no crack occurrence was observed in the detection test with engine oil in Comparative Examples 7 and 8, but crack occurrence were observed in Comparative Example 9.

Ex.	No.	Hs	Mo 100	T _g	E _g	Hs	T _g	E _g
		(ps)	(MPa)	(MPa)	(%)	(ps)	(%)	(%)
Blend rubber S		100 parts by weight						
Blend rubber T		100 parts by weight						
Blend rubber U		100 parts by weight						
Blend rubber V		100 parts by weight						
Stearic acid		1 parts by weight						
Antioxidant (Nocack CD)		2 parts by weight						
MT carbon black		30 parts by weight						
Calcium hydroxide		5 parts by weight						
Magnesium oxide		2 parts by weight						
Bisphenol AF		1 parts by weight						
Benzyltriphenylphosphonium chloride		0.4 parts by weight						

Results of determination of physical properties and tests in Comparative Examples 10 to 13 are shown in the following Table 6, where no crack occurrence was observed at all in the deterioration test with engine oil throughout Comparative Examples 10 and 13.

TABLE 6

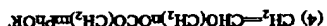
Ex. No.	Comp.	Hs	Mo 100	T _g	E _g	Hs	T _g	E _g
		(ps)	(MPa)	(MPa)	(%)	(ps)	(%)	(%)
7	48	0.4	5.1	460	+19	+4	-69	
8	70	6.9	16.7	180	+11	-44	-4	
9	72	4.1	11.6	310	+1	-3	-4	
10	58	3.1	8.5	260	+7	-33	-28	
11	57	2.8	8.1	250	+6	-37	-36	
12	48	1.4	3.5	490	+17	+14	-49	
13	70	1.3	8.6	330	+5	-42	-21	

COMPARATIVE EXAMPLE 14

Acrylic copolymer elastomer M and fluorine-containing elastomer A were blended in a ratio of 50:50 by weight by roll method to prepare blend rubber W. The thus obtained blend rubber W was subjected to mixing, heading and vulcanization in the same manner as in Example 30. No cross-linking reaction took place at all.

What is claimed is:

1. An acrylic copolymer elastomer which comprises a copolymer of an alkyl acrylate having an alkyl group having 1 to 8 carbon atoms and an unsaturated ester compound represented by the following general formula:



where R is a hydrogen atom or a methyl group; R' is a hydrogen atom, an acyl group or a trialkylsilyl group; Ph is a phenylene group; n is an integer of 1 to 6; and m is 0 or an integer of 1 to 3.

2. An acrylic copolymer elastomer according to claim 1, wherein the copolymer has a Mooney viscosity (100° C.) of about 10 to about 100 pfs.

* * *

US-PAT-NO: 5047120
DOCUMENT-IDENTIFIER: US 5047120 A

TITLE: Method for manufacture of lightweight frothed mineral wool panel

DATE-ISSUED: September 10, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Izard; David G.	Wauconda	IL		
Englert; Mark H.	Buffalo Grove	IL		

US-CL-CURRENT: 162/101; 162/152, 162/158, 162/168.1, 162/169, 162/181.1,
162/181.6, 162/208

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 6. Document ID: JP 07315908 A

L1: Entry 6 of 14

File: JPAB

Dec 5, 1995

PUB-NO: JP407315908A
DOCUMENT-IDENTIFIER: JP 07315908 A
TITLE: MINERAL WOOL-FREE ACOUSTICAL TILE COMPOSITION

PUBN-DATE: December 5, 1995

INVENTOR-INFORMATION:

NAME	COUNTRY
BAIG, MIRZA A	
ENGLERT, MARK H	
GAYNOR, JOHN C	
KACNER, MICHAEL A	
SINGH, RAJINDER	

INT-CL (IPC): C04B 28/14; C04B 14/18; C04B 14/42; C04B 16/02; C04B 16/06; C04B 24/38; C04B 26/28; C04B 33/13; C04B 35/632; C04B 35/26; C04B 35/80; E04B 1/82; E04B 9/00

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 7. Document ID: EP 924341 A1

L1: Entry 7 of 14

File: EPAB

Jun 23, 1999

Art Unit: 1711

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to U. K. Rajguru whose telephone number is (703) 308-3224. The examiner

can normally be reached on Monday-Friday from 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, James Seidleck, can be reached on (703) 308-2462. The appropriate fax number for

the organization where this application or proceeding is assigned is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

UKR
WKS

June 14, 2000

James J. Seidleck
Supervisory Patent Examiner
Technology Center 1700

PUB-NO: EP000924341A1
DOCUMENT-IDENTIFIER: EP 924341 A1
TITLE: Acoustical tile containing treated perlite

PUBN-DATE: June 23, 1999

INVENTOR-INFORMATION:

NAME

ENGLERT, MARK H

COUNTRY

US

INT-CL (IPC): D21H 17/69; E04C 2/10; C04B 14/18
EUR-CL (EPC): D21H013/44

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5817262 A

L1: Entry 8 of 14

File: EPAB

Oct 6, 1998

PUB-NO: US005817262A
DOCUMENT-IDENTIFIER: US 5817262 A
TITLE: Process of producing gypsum wood fiber product having improved water resistance

PUBN-DATE: October 6, 1998

INVENTOR-INFORMATION:

NAME

ENGLERT, MARK H

COUNTRY

US

INT-CL (IPC): B28B 1/26
EUR-CL (EPC): C04B011/02; C04B024/42, C04B028/14

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5395438 A

L1: Entry 9 of 14

File: EPAB

Mar 7, 1995

Art Unit: 1711

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:
Pending claims 10-42 are now in condition for allowance for the following reasons:
Rejection of claim 12 under 35 USC 112, second paragraph is withdrawn following persuasive arguments against it from the appellants.

The primary reference Trinh et al (USP 4818569) fails to suggest polyamine, first ingredient of the (claimed) composition, though it teaches the carboxylic acid, second Ingredient. Other primary reference EP 206513 discloses composition containing both polyamine and fatty acid Morton (USP 3686025), a secondary reference, discloses a softening composition which can be impregnated into absorbent materials used as means to dispense that composition. Though Morton teaches a dispensing means, there is no advantage to be gained and therefore no motivation in combining Morton with EP' 513. There are few secondary references relied upon, but they fail to compensate for deficiencies of either primary reference. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

PUB-NO: US005395438A
DOCUMENT-IDENTIFIER: US 5395438 A
TITLE: Mineral wool-free acoustical tile composition

PUBN-DATE: March 7, 1995

INVENTOR-INFORMATION:

NAME

BAIG, MIRZA A
ENGLERT, MARK H
GAYNOR, JOHN C
KACNER, MICHAEL A
SINGH, RAJINDER

COUNTRY

US
US
US
US
US

INT-CL (IPC): C09D 1/00
EUR-CL (EPC): C04B026/28

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5250153 A

L1: Entry 10 of 14

File: EPAB

Oct 5, 1993

PUB-NO: US005250153A
DOCUMENT-IDENTIFIER: US 5250153 A
TITLE: Method for manufacturing a mineral wool panel

PUBN-DATE: October 5, 1993

INVENTOR-INFORMATION:

NAME

IZARD, DAVID G
ENGLERT, MARK H

COUNTRY

US
US

INT-CL (IPC): D21H 13/38
EUR-CL (EPC): C04B024/38; C04B026/04, D21F011/02 , D21H013/40 , D21H017/37 ,
D21J001/06 , D21J001/20 , D21H023/04

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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Generate Collection

Term	Documents
ENGLERT.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1080
ENGLERTS	0
MARK[DWPI,EPAB,JPAB,USPT,PGPB]	352378
MARKS[DWPI,EPAB,JPAB,USPT,PGPB]	122651
(ENGLERT ADJ (MARK[IN])).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

1. A preliminary amendment has been filed on June 9, 1999 (paper no. 3).

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lawson (USP

4,123,488) or Marvel et al (USP 4,250,222).

Lawson discloses a molded plastic article. Finely ground/thermosetting resins, catalysts, *which comprises the unsaturated resin can be incorporated in the system*

fillers etc (col. 2, line 67 to col. 3, line 29).

Lawson does not mention the (claimed) ultra-fine grained form of the thermoplastic.

The examiner is of the opinion that the degree of fineness of the pulverized resin is a matter of

personal choice based on specific requirements of the operation. It would therefore have been

obvious to follow teachings of Lawson to arrive at the subject matter encompassed by this claim.

Marvel also discloses finished and semifinished products made from coarsely ground

thermoplastic (abstract), but fails to suggest the ultra-fine grained structure of thermoplastic.

It would also have been obvious to arrive at instantly claimed invention (of instant claim

13) by following teachings of Marvel.

WEST

Generate Collection

Search Results - Record(s) 11 through 14 of 14 returned.☐ 11. Document ID: US 5047120 A

L1: Entry 11 of 14

File: EPAB

Sep 10, 1991

PUB-NO: US005047120A

DOCUMENT-IDENTIFIER: US 5047120 A

TITLE: Method for manufacture of lightweight frothed mineral wool panel

PUBN-DATE: September 10, 1991

INVENTOR-INFORMATION:

NAME

IZARD, DAVID G

ENGLERT, MARK H

COUNTRY

US

US

INT-CL (IPC): D21H 3/00

EUR-CL (EPC): C04B026/04; D21F011/00, D21H023/04 , D21H013/40 , D21H013/44 ,
D21H017/36

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 12. Document ID: WO 9012169 A1

L1: Entry 12 of 14

File: EPAB

Oct 18, 1990

PUB-NO: WO009012169A1

DOCUMENT-IDENTIFIER: WO 9012169 A1

TITLE: METHOD FOR MANUFACTURING A MINERAL WOOL PANEL

PUBN-DATE: October 18, 1990

INVENTOR-INFORMATION:

NAME

IZARD, DAVID G

ENGLERT, MARK H

COUNTRY

US

US

US-CL-CURRENT: 524/417

INT-CL (IPC): C08L 33/00; E04B 1/90

EUR-CL (EPC): C04B024/38; C04B026/04, D21H013/40 , D21J001/06 , D21J001/20 ,
D21H023/04

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Clip Img	Image
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☐ 13. Document ID: WO 8805100 A1

L1: Entry 13 of 14

File: EPAB

Jul 14, 1988

21 Jan 2020 (1)

Application/Serial Number: 09/367770

Page 2

Art Unit: 1711

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6, 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 8 provides for the use of an interior coating material, but, since the claim

does not set forth any steps involved in the method/process, it is unclear what method/process

applicant is intending to encompass. A claim is indefinite where it merely recites a use without

any active, positive steps delimiting how this use is actually practiced.

Claim 6 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without

setting forth any steps involved in the process, results in an improper definition of a process, i.e.,

results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex*

parte Dunki, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd. v. Brenner*, 255 F.

Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim 6 indefinite in failing to recite the upper limit of the solid content in line 4.

2. The disclosure is objected to because of the following informalities: Colon used after

“comprising” and “consisting of” in claim 1, (a), (b) and (c) should be deleted. .

Appropriate correction is required.

PUB-NO: WO008805100A1
DOCUMENT-IDENTIFIER: WO 8805100 A1
TITLE: METHOD FOR MANUFACTURE OF LIGHTWEIGHT FROTHED MINERAL WOOL PANEL

PUBN-DATE: July 14, 1988

INVENTOR-INFORMATION:

NAME

IZARD, DAVID GRAHAM

ENGLERT, MARK HOWARD

COUNTRY

US

US

US-CL-CURRENT: 162/101

INT-CL (IPC): D21H 3/00

EUR-CL (EPC): D21F011/00; D21J001/20, D21H013/40 , D21H013/44 , D21H017/36 ,
D21H017/45

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Clip Img	Image
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☐ 14. Document ID: WO 8805097 A1

L1: Entry 14 of 14

File: EPAB

Jul 14, 1988

PUB-NO: WO008805097A1

DOCUMENT-IDENTIFIER: WO 8805097 A1

TITLE: METHOD FOR MANUFACTURING A MINERAL PANEL

PUBN-DATE: July 14, 1988

INVENTOR-INFORMATION:

NAME

IZARD, DAVID GRAHAM

ENGLERT, MARK HOWARD

COUNTRY

US

US

US-CL-CURRENT: 162/101; 162/168.1, 162/168.3, 162/208

INT-CL (IPC): D21D 3/00

EUR-CL (EPC): D21F011/02; D21J001/20, D21H013/40 , D21H017/37

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Clip Img	Image
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Generate Collection

Term	Documents
ENGLERT.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1080
ENGLERTS	0
MARK[DWPI,EPAB,JPAB,USPT,PGPB]	352378
MARKS[DWPI,EPAB,JPAB,USPT,PGPB]	122651
(ENGLERT ADJ (MARK[IN])).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

Art Unit: 1711

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-89 are rejected under 35 U.S.C. 102(b) as being anticipated by Cole (USP (AB - 1&3) 5514433).

Cole is of record on PTO-1449, paper no. 3). Cole discloses a coating composition for

metal containers, a metal of coating and a metal article. Compositions comprises (a) an epoxy

resin, (b) a phenolic resin, (c) a vinyl chloride copolymer (d) a vinyl chloride dispersion resin and

(e) a nonaqueous carrier (abstract col 3 lines 59-67; col 4, lines 1-14). Pigments such as titanium

dioxide can be included in this composition (col. 9, lines 31-52). Solid content of such a

composition is about 54% (col. 10, lines 57-59). Amounts of ingredients of composition in

examples in cols. 10-12 satisfy the mathematical limitations of instant claim 1.

Instant claims therefore lack novelty.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

WEST

Generate Collection

Search Results - Record(s) 1 through 2 of 2 returned.☐ 1. Document ID: SU 1058982 A

L11: Entry 1 of 2

File: DWPI

Dec 7, 1983

DERWENT-ACC-NO: 1984-199936

DERWENT-WEEK: 198432

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Mixt. for prepn. of waterproofing material - contains modified kaolin as filler, and sodium carboxymethyl cellulose as thickener to improve properties

INVENTOR: KRUGLITSKI, N N; MAKAROV, A S ; TRETINNIK, V Y U

PRIORITY-DATA: 1981SU-3332330 (August 19, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1058982 A	December 7, 1983		004	

INT-CL (IPC): C08K 9/04; C08L 11/02

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 2. Document ID: DE 2512293 A, FR 2268514 A, GB 1471215 A, US 3995024 A, ZA 7501729 A

L11: Entry 2 of 2

File: DWPI

Nov 20, 1975

DERWENT-ACC-NO: 1975-79021W

DERWENT-WEEK: 197548

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TITLE: Dentifrice contg. sodium carboxymethyl cellulose thickener - water-swellable clay and water-soluble salt of hydroxybenzoic acid esters

PRIORITY-DATA: 1974GB-0018357 (April 26, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 2512293 A	November 20, 1975		000	
FR 2268514 A	December 26, 1975		000	
GB 1471215 A	April 21, 1977		000	
US 3995024 A	November 30, 1976		000	
ZA 7501729 A	January 9, 1976		000	

INT-CL (IPC): A61K 7/16

1. The request filed on April 24, 2000 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/042777 is acceptable and a CPA has been established. An action on the CPA follows.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bhojraj et al. (WO 96/20879) in view of Bayer (U.S.P. 5306542).

This rejection is incorporated here by reference from prior office action (paper No. 3), section 1, pages 2-3.

4. Applicant's arguments filed April 24, 2000 (paper No. 7) have been fully considered but they are not persuasive.

On page 3, paragraph 3 of above response, the applicants admits that Bhojraj teaches EVA at 85-99.5% which overlaps the claimed range of 85.95%. There need to be no more express suggestion in Bhojraj to pick up claimed 85-95% range.

Bhojraj uses EVA from about 70% to about 99.5% (with 28% VA content) the range of VA content is (79.6% and =27,86) 19,6% to 27,86%. Thus here also Bhojraj teaches a range of VA content which overlaps the claimed 15-22% range.

17 Jul 2002